

GENERAL INFORMATION

Concord Model 105 and Hosho Model 105 are two speed, dual track tape recorders.

Recordings can be made from a radio, phonograph, TV, magnetic cartridge, and from a crystal or ceramic cartridge.

A remote control switch is provided to start and stop the mechanism when it is being used for dictation.

The two tape speeds are 3 $3/\,4$ and 7 $1/\,2$ ips. The playing and recording times, using both tracks, are as follows:

Reel Size 5" (600 ft.) 3 3/4 ips 1 hour 7 1/2 ips 1/2 hour

These recorders are to be connected to an outlet supplying 110-120 volts, 60 cycles AC only. Severe damage will result if connected to a higher voltage or a direct current (DC) line.

Supplied By:

Concord Electronics Corp. 1549 North Vine Street Hollywood, California

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

DATE



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of $\rm CQ447$

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1961 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

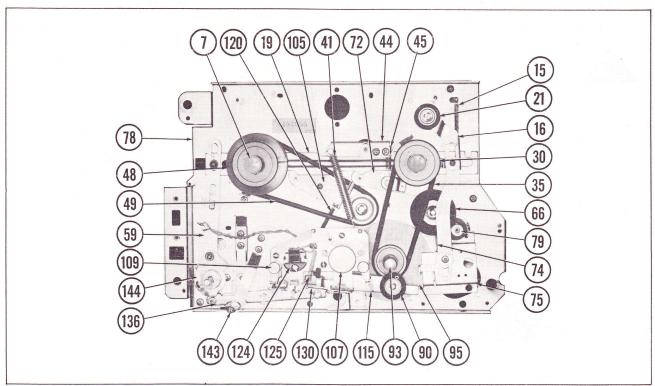


FIG. 1 TOP VIEW OF MECHANISM WITH DRESS PLATE REMOVED

FUNCTION OF CONTROLS AND JACKS

On-Off-Volume

Turn this knob clockwise to turn the power on to the unit. Further rotation increases the volume during playback. When recording, it controls the recording level.

Selector

- 1. The tape motion is stopped when the Selector is in the Stop position.
- 2. Turning the Selector counterclockwise places the unit in Rewind position.
- 3. Turning the Selector clockwise from Stop position places the unit in play.
- 4. Turning the Selector clockwise from Play position places the unit in Record.

Fast Forward

Turn Selector to Play position and then pull the Fast Forward lever toward the front of the case to advance the tape rapidly.

Tone Control

Turn this control to the right to increase the treble. This control is operative only when Selector is in Play position.

Speaker Switch

When the switch is in the SP position, the recorder will play back through its built-in speakers. When the switch is in the EP Ext. position, it will play

back through an external speaker or earphones.

Red "R" Button

Press down on the "R" button and turn the Selector to Record to make a recording. This is a safety lock to prevent the recorder from being put into the Record position and erasing a recording.

Speed Change

To change speed from 7 l/2 to 3 3/4 ips, remove head cover (4), knurled capstan screw (93), and lift 7 l/2 ips capstan (94) off and place on capstan holder.

E. P. Jacks

Earphones may be plugged into this jack for monitoring a recording or for listening to the playback of a recording.

"Ext." Output Jack

This jack is provided for playing the recorder through an external speaker, radio, or Hi Fiamplifier.

"Mic" Input Jack

This jack is used when making recordings with the microphone.

"Aux" Radio-Phono Input Jack

This jack is used when recording from a radio, phonograph, or TV.

- Place a reel of tape on the left hand reel spindle (26).
- Place an empty reel on the right hand reel spindle (26).
- Unwind about 15" of tape from the reel. Hold a section taut and insert it in the tape slot. Make sure the dull-coated side faces the rear of the recorder.
- 4. Insert the free end of the tape into one of the radial slots in the right hand spindle reel. Turn the reel several turns counterclockwise to fasten the tape to the reel and to take up all slack between reels.

Microphone Recording

- Rotate the On-Off-Volume control clockwise to turn the recorder on. Allow sufficient time for the tubes to warm up.
- 2. Insert the microphone plug into the "Mic" jack.
- 3. Set the speed for $3 \frac{3}{4}$ or $7 \frac{1}{2}$ ips.
- 4. Turn the Selector to the Record position.
- Hold the microphone about 6 to 12 inches from your mouth and speak in a normal voice.
- Adjust the volume control until the record indicator just closes on the loudest passages.
- NOTE: Correct volume level on recording is very important. Too weak a signal will result in weak playback and high background noise. Too strong a signal will result in distortion during playback.

Recording from Radio, Phonograph, or TV

Connect the patch cord supplied with the recorder as follows:

- 1. Connect the alligator clips across the voice coil terminals of the radio, phonograph, or TV.
- 2. Insert the patch cord plug into the "Aux" jack.
- Proceed as described under "Microphone Recording".

Cartridge Recording

- 1. Magnetic Cartridge:
 - (a) Connect the output of the cartridge to a preamplifier.
 - (b) Connect the preamplifier output to the "Aux" jack of the recorder.
 - (c) Proceed as described under "Microphone Recording".
- 2. Crystal or Ceramic Cartridge:
 - (a) Connect the cartridge leads to the "Aux"

jack of the recorder.

(b) Proceed as described under "Microphone" Recording".

Dual-Track Recording

In Dual-Track Recording, only one-half of the tape width is used in making a recording. After the first recording is completed, remove the full reel of tape, turn it over and place on the supply spindle. Thread the tape and proceed with the recording. The tape can be played back in the same manner.

Rewind

To rewind the tape at a rapid speed, turn the Selector to Rewind.

To Play a Recording

- 1. Thread the tape as described under "Threading the Tape".
- 2. Turn Selector to the Play position.
- 3. Adjust the volume to the desired listening level.

To Erase a Recording

Any recording on the tape is automatically erased before a new one is made when in the record position. To erase a recording without putting new material on the tape, follow the normal recording procedure, but set the volume control to the full counterclockwise position.

Fast Forward

Tape can be advanced rapidly by setting the Selector in Play position and then pull the "Fast" forward lever toward the front of the recorder.

Remote Control Switch

The Remote Control Switch plugs into the rear of the recorder. By setting the Selector in Play position, the tape can be started and stopped any time by depressing the button on the Remote Control Switch.

To Edit and Splice Tape

- NOTE: It is impossible to edit and splice one track of a two-track tape without affecting the other. Recordings to be edited should be limited to one track tapes.
 - Tape may be edited by cutting out unwanted portions or by joining selection into another sequence. Announcements can be inserted between selections, etc. Unused tape can be spliced for reuse.
 - 2. For best results, cut tape at a slight diagonal, butt ends together and fasten on the glossy side with splicing tape. Trim off any excessive width.

CONCORD AND HOSHO MODEL 105

DISASSEMBLY

To Remove Recorder from Case

- 1. Remove all accessories from the recorder.
- 2. Remove all control knobs.
- 3. Remove head cover (4).
- 4. Remove the four panel retaining screws.
- 5. Lift the panel (8) off.

- 6. Remove four screws from bottom of case.
- 7. Lift recorder out of case.
- 8. Unplug the speaker plug from the amplifier chassis.
- 9. To reassemble, reverse the foregoing procedure.

ADJUSTMENTS

Record-Playback Head

- Thread a standard frequency tape on the recorder.
- Adjust the head mounting screws for the angular position that will give maximum output while playing a section of the tape with more than 7,000 cps.
- 3. Tighten the mounting screws.

Drive Idler

- Fasten a string around the oil cup of drive idler (66).
- 2. Fasten a spring scale to the string and measure the force necessary to pull drive idler (66) away from the motor pulley (79) and flywheel of capstan (95).

CLEANING

The record head, erase head, capstan, pressure roller, and tape guides should be cleaned occasionally to remove the tape residue which is worn off the tape as it passes these parts. Use a soft cloth and alcohol to remove the residue.

Clean the rubber tired idler wheels and belts with cleaning fluid.

- 3. A force of 1 1/4 to 1 5/8 pounds is required.
- 4. To obtain this force, bend the metal lug that drive idler tension spring (74) is fastened to.

Pressure Roller

To vary the pressure of the pressure roller, pressure roller arm tension spring will have to be adjusted by varying the gap between the coils of the spring. The pressure should be from 2 5/8 to 3 3/8 pounds.

Takeup Torque

The takeuptorque is adjusted by varying friction spring (33). It should be adjusted so the upper limit is between 1.3 - 2.1 oz. inches.

LUBRICATION

All rotating parts are provided with oilite bearings and are lubricated before leaving the factory. Under normal use, no lubrication is required for a long period of time. When lubrication is necessary, use sewing machine oil sparingly.

When lubricating the flywheel, remove the capstan screw and inject 4 or 5 drops of sewing oil.

TROUBLE CHART

	TROODLE CHART	
Symptom	Cause	Remedy
Weak output.	 Record-playback head (107) not properly aligned. 	1. See "Head Adjustment".
	Pressure pad (126) not contact- ing the head properly.	 If pressure padis worn, replace. If spring (125) is broken, replace.
	Record-playback head (107) defective.	3. Replace.
No takeup reel drive in "Record" or "Play" position.	 Takeup drive belt (35) broken. Brake assembly (44) does not open. Coupling between takeup drive pulley (34) and takeup hub (30) too loose. 	 Replace. Adjust or replace brake assembly (44). Adjust friction disc (32).
	 Takeup hub (30) or takeup drive pulley (34) does not rotate free- ly. 	 Lubricate with sewing machine oil.

CONCORD AND HOSHO MODEL 105

TROUBLE CHART (CON'T.)

		TROUBLE CHART (CON 1.)		
Symptom		Cause		Remedy
Incomplete or no erase.	1.	Erase head (124) is not properly aligned.	1.	Adjust the erase head.
	2.	Erase head (124) defective.	2.	Replace
	3.	Defective erase head circuit.	3.	Check circuit components.
Runs slow in fast forward position.	1.	Fast forward roller (21), takeup hub (30), or rewind hub (48) dirty.	1.	Remove these parts, clean, lubricate, and reassemble.
	2.	Tape guide posts dirty.	2.	Clean posts with a soft cloth and alcohol.
	3.	Contact between fast forward roller (21) and takeup hub (30) or takeup drive pulley (34) not sufficient.	3.	Clean all contacting surfaces or adjust so they make proper contact.
Wow or Flutter.	1.	Play-record head (107), erase head (124), pressure pads (126) and (129), or tape guide post (109) dirty.	1.	Clean these parts with a soft cloth and alcohol.
	2.	Motor pulley (79), drive idler wheel (66), capstan flywheel (95), or pressure roller (90) coated with foreign matter.	2.	Clean the surface of these parts with a cloth dampened with alcohol.
		Capstan screw loose. Rotating parts binding.	4.	Tighten screw. Clean any binding rotating parts and lubricate
	5.	Drive idler wheel (66) or pressure roller (90) has flat spots formed on them.	5.	Replace drive idler wheel (66) or pressure roller (90).
	6.	Tape dirty.	6.	Replace the tape.
Motor (82) will not run.		Motor (82) defective. Loose connection.		Replace motor (82). Check motor leads for cold solder joints.
Takeup hub (30) binds in rewind position.	1.	Coupling is too close between takeup drive pulley (34) and takeup hub (30).	1.	See ''Takeup Torque Adjustment''.
No drive in rewind position.	1. 2.	Rewind drive belt (49) broken. Spring (120) broken or disconnected.		Replace rewind drive belt (49). Replace or reconnect spring (120).
	3.	Foreign matter on capstan fly- wheel (95) and rewind drive pulley (104).	3.	Clean with alcohol.
	4.	Rewind drive pulley (104) or rewind hub (48) binding.	4.	Lubricate with sewing machine oil.

		MECHANIC	AL PAF	RTS LIST	
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1 2 3 4 5 6	A81125 A87050-A	Head Cover Retainer Screws Head Cover Retainer Clips Head Cover Retainer Head Cover A-L Fast Forward Knob Volume Control Knob - K	13 14 15 16 17 18	A70057 A64951	Fast Forward Slide Retaining Screw Lock Washer Fast Forward Tension Spring Fast Forward Slide Belt Guide Spacer
7	or A87050	Volume Control Knob Reel Holders	19 20 21	A64957-B A48093	Selector Slide Washer Fast Forward Roller -I.
8 9	A81029-E	Panel "C" Washer	22 23	A85181 A85182	Oil Fabric Washer Felt Washer
10 11 12	A67448 A65199 A85181	Fast Forward Roller Shaft Oil Case Oil Fabric Washer	24 25 26	A67397	Lockwasher Hex Nut Reel Spindle

FOLDER 5

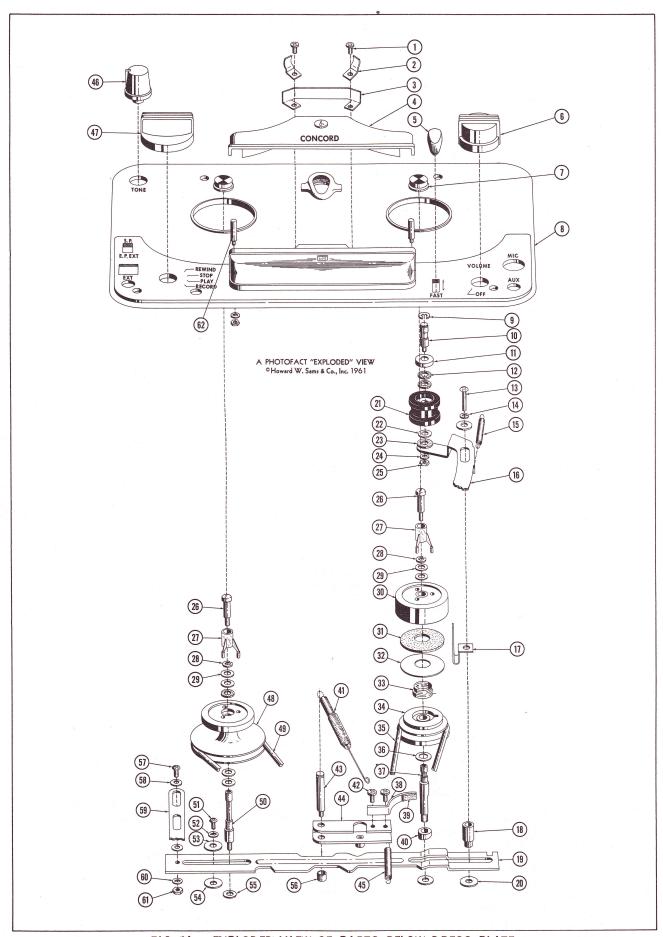
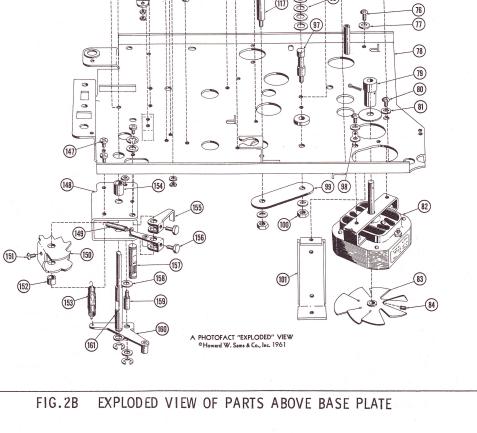


FIG.2A EXPLODED VIEW OF PARTS BELOW DRESS PLATE

67) 68 69

(1) (1)

72 -(73) -(74)



(21) (22) (24) (23)

(137)(136)

146

(115)

FOLDER 5

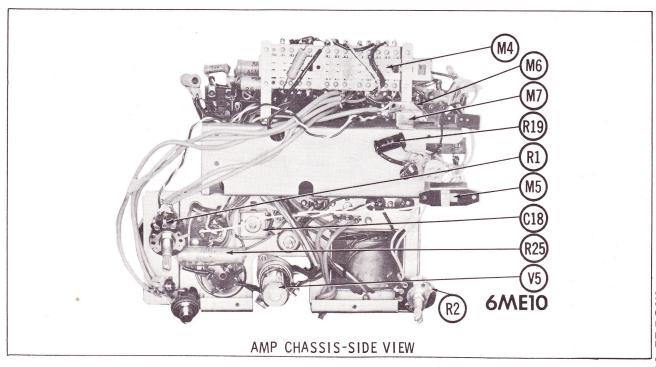
MECHANICAL PARTS LIST (CON'T.)

Ref.	Part		Ref.	Part	
No.	No.	Description	No.	No.	Description
27	A81055	Pidgod Classes	00		
	A01033	Ridged Sleeve	93		Capstan Screw
28		Spring Washer	94		7 1/2 Ips Capstan
29		Washer	95	A48059-A	Capstan
30	A81059-B	Take-up Hub	96		Oil Fabric Washer
31	A85151	Friction Felt	97		Capstan Shaft
32	A64887	Friction Disc	98		Lug
33	A70048	Friction Disc and Spring	99		Stiffing Plate
34	A81060	Take-up Drive Pulley	100		Hex Nut
35*	*A83027-B	*Take-up Drive Belt	101		Mounting Bracket
36	A85186	Oil Fabric Washer	102		"C" Washer
37	A67398	Take-up Hub Shaft	103	A85181	A SOCIAL DESCRIPTION OF THE PROPERTY OF THE PR
38	10.000	Brake Arm	103	A48090	Oil Fabric Washer
39		MATERIAL STATE OF THE PROPERTY	10000000000	200 NOON NOON NOON	Rewind Drive Pulley
	4.07000	Brake Pad	105	A64955	Rewind Drive Pulley Arm
40	A67396	Stepper	106		Head Assembly Mounting Screw
41	A70073B	Pressure Roller Arm Tension Spring	107	A46017	Record-Playback Head
42		Brake Arm Mounting Screws	108	_	Record-Playback Head Mtg. Screy
43		Brake Assembly Shaft	109	A67446	Tape Guide Post
44	A64960	Brake Assembly	110	A67449	Tape Guide Post
45		Brake Assembly Tension Spring	111	A64950	Spacer
46	A87051-A	Tone Control Knob-K (Green)	112	1101000	Record-Playback and Erase Head
	A87051	Tone Control Knob (Beige)	114		
47	A87049-A	Selector Control Knob-K (Green)	110		Mounting Plate
	A87049-A		113		Lock Washer
48	A43094	Selector Control Knob (Beige)	114		Hex Nut
49*		Rewind Hub	115	A64958-B	Pressure Roller Arm
	*A83028-B	*Rewind Drive Belt	116		Spacer
50	A67651	Rewind Hub Shaft	117		Pressure Roller Arm Shaft
51		Selector Slide Mounting Screw	118		Screw
52		Lock Washer	119		Plate
53		Washer	120	A70057	Rewind Drive Pulley Arm Tension
54		Fiber Washer	120	1110001	Spring
55		Washer	121		
56		Spacer	122		7 1/2 Ips Capstan Storage Post
57			100000000000000000000000000000000000000		"C" Washer
58		Selector Lever Mounting Screw	123		Pressure Pad Assembly Shaft
	101700 -	Fiber Washer	124	A46017	Erase Head
59	A64792-B	Selector Lever	125		Pressure Pad Tension Spring
60		Lock Washer	126	A85153	Pressure Pad
61	-	Hex Nut	127		Pressure Pad Tension Spring(Coil)
62		"C" Washer	128		Pressure Pad Arm Shaft
63		Spring Washer	129	A85153	Pressure Pad
64		Felt Washer	130		Pressure Pad Assembly
65		Oil Fabric Washer	131		Pressure Pad Adjusting Screw
66	A67414-B	Drive Idler	132		Pressure Pad Actuating Arm
67		Felt Washer	133		Sarow
68	_	Oil Fabric Washer	134	A64947	Screw
69		Screw (Hex Hd.)		MUTTTI	Record Lock Button Protector
			135		''C'' Washer
70		Plate	136	A64794-C	Pressure Roller Arm Hold-out
71	A C 4 T O T -	Drive Idler Mounting Plate			Lever
72	A64795-B	Drive Idler Arm	137		Pressure Roller Arm Hold-out
73		Hex Nut			Lever Shaft
74		Drive Idler Tension Spring	138		Spacer
75		Fast Forward Slide Mounting Brkt.	139	-	Screw
76		Screw	140		Rewind Belt Guide
77		Lock Washer	141		Selector Lever Pivot
78		Baseplate	142		Washer
79	-	Motor Pulley	143	1 81060 D	
80				A81069-B	Record Lock Button
81		Motor Mounting Screws	144	A67463	Selector Cam
	4.40055	Lock Washer	145	- 3	Set Screw
82	A48055	Motor	146		Record Lock
83		Motor Fan	147		Screw
84		Fan Set Screw	148		Switch Cam Selector Mounting Brk
85		Drive Idler Arm Shaft	149		Switch Lever Tension Spring
86		Hex Nut	150		Switch Cam Selector
87		"C" Washer	151		Set Screw
88					
	* .	Spring Washer	152		Spacer
89	1.40001 =	Oil Fabric Washer	153		Tension Spring
90	A48031-B	Pressure Roller	154	_	Spacer
		Oil Fabric Washer	155		Switch Lever
91 9 2		Washer	156		

Ref.	Part No.	Description	Ref.	Part No.	Description
157 158 159		Switch Lever Shaft Fiber Washer Detent Lever Shaft	160 161		Detent Lever Function Selector Shaft

^{*} Rewind Drive Belt Walsco Part No. 1410-10

* Take-up Drive Belt Walsco Part No. 1474



ELECT. PARTS LIST AND DESCRIPTIONS

ELECTROLYTIC CAPACITORS

	NOTES								
	SPRAGUE PART No.				TE-1504	TE-1504	TE-1130	TE-1130	TE-1207
	PYRAMID PART No.	TMT-3130			MLV5-150	MLV5-150	MLV20-12	MLV20-12	MLV25-25
REPLACEMENT DATA	MALLORY PART No.	FP311.6			TC40	TC40	TT15X20	TT15X20	TT25X25
REPLAC	CORNELL- DUBILIER PART No.				NLW5-150	NLW5-150	NLW20-15	NLW20-15	NLW25-25
	AEROVOX PART No.				SREISOV5	SRE150V5	PTT10020	PTT10020	PTT25025
	CONCORD PART No.	A25103							
RATING	CAP. VOLT.	150	150	150	150	150	10	10	25
RAT	SA.	09	40	3	2	2	20	20	25
	No.	CIA	В	U	C2	C3	74	CS	C6

FIXED CAPACITORS Capacity values given in the rating column are in mfd. for Paper

		Capacitors, and in mmfd. for Mica and Ceramic Capacitors.	nd in mmfd.	for Mica a	nd Ceramic	Capacitors.		
					REPLACE!	REPLACEMENT DATA		
No M	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGU PART No
C7	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C8	300 10%		1469-0001	TCZ-100	22R5T1	CM-19B-10IK	MCB235	MS-31
63	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C10	. 01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
CII	. 01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C12	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C13	330 10%		1469-00033		5R5T3	CM-19B-331K MCB241	MCB241	MS-333
C14	100 10%		1469-0001	TCZ-100	22R5T1	CM-19B-101K	MCB235	MS-31
CIS	. 01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C16	10000 5%				10R5S1	VCM-35B-103J	MCE475	MS-11
C17	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C18	50-300					465		
C19	. 01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C20	. 01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C21	3300 10%		1469-0033		1R5D33	CM-20B-332K MCJ462	MCJ462	MS-233
C22	1000 5%		1469-001		5R5D1	CM-19B-102J MCJ255	MC J255	MS-21
C23	. 01 400V		P488N-01	D6-104	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C24	. 01 400V		P488N-01	D6-104	CUB4S1	4DP-1-103	GEM-411	4TM-S10

CONTROLS

					COLLEGE	7117		
		9		REF	REPLACEMENT DATA	TA		
ITEM	KAIING	2	CONCORD	CENITDALAB	CIABOCTAT	CTC - IBC	VACILANA	SELOIA NOIEVITATION
Š	RESIST.	WATTS		PART No.	PART No.	PART No.	PART No.	INSTALLATION NOTES
RIA	500K	-in	A36501					Volume
Д	Switch			f				Power Off-On
R2	20K		A36016					Tone

	C2 C10 R12 C20 R20 C5 R11 C14 C13 C15 C11 R13 R14	
CHASSIS-BOTTOM VIEW	R3 C12 C7 R5	R16 C6 C24 R24
AMP CH	C4 R6 R4 C8 R21 C21 R7 C22 R10 C17 R17 R9 R18 C3 R8 R15	R23 R22

ELECT. PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

		REP	LACEMENT DA	TA			REF	PLACEMENT DA	ATA
No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS	No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS
R3	470K				R15	3300Ω 2W			
R4	100K 2W				R16	180Ω 2W			
R5	270K 2W	1			R17	56K			
R6	1200Ω				R18	220K			
R7	10K IW				R19	5Ω IW			
R8	100K 2W				R20	4.7meg			
R9	270K 2W				R21	270K			
R10	1200Ω				R22	lmeg			
RII	220Ω				R23	7meg			
RI2	8200Ω				R24	lmeg			
R13	1200Ω				R25	150Ω 2W			
RI4	470K								

COILS (RF-IF)

		1	REPLACEMEN	IT DATA			
No.	USE	CONCORD PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	NOTES	
Ll	Oscillator						

TRANSFORMER (POWER)

					REPLACE	MENT DATA			
No.	PRI.	SEC. 1	SEC. 2	CONCORD PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
Tl	117V@ . 27A Tap @ 100V (Not Used Tap@ 85V@ . 150A	DC	6.3VCT a) 1.8A	A11013					

TRANSFORMER (AUDIO OUTPUT)

-	IMPEDANCE			REPLA				
No.			CONCORD	Merit	Stancor	Thordarson	Triad	NOTES
CONCER	PRI.	SEC.	PART No.	PART No.	PART No. PART	PART No. PART No.	PART No.	
T2	2500Ω	4-5Ω	A12136	A-3025①	A-33321	26S58①	S-IX(I)	① Drill New Mounting Hole (s).

SPEAKER

	TYPE			REPLACEMENT DATA			
No.				CONCORD	QUAM	NOTES	
	SIZE	FIELD	V. C. IMP.	PART No.	PART No.		
SP1 SP2	$\frac{3\frac{1}{2}}{3\frac{1}{2}}$ "	PM PM	8-10Ω 8-10Ω	A45192 A45192	3A07Z8 3A07Z8	7	

FUSES

			REPLACEMENT DATA							
ITEM No.	TYPE	RATING	CONCORD PART No.		LITTELFUSE PART No.		BUSS PART No.			
			FUŞE	HOLDER	FUSE	HOLDER	FUSE	HOLDER		
MI	3AG	½A 250V			312005 (3AG 1½A 250V)	357001	AGC ½	4405		

MISCELLANEOUS

No.	PART NAME	CONCORD PART No.	NOTES				
M2	Head	A46017	Record-Playback				
M3	Head	A46018	Erase				
M4	Switch	A42519	Selector (Slide Type)				
M5	Switch	A42200	Speaker (DPDT Slide Type)				
M6	Switch	A42518	Speaker (Leaf Type)				
M7	Switch	A42517-B	Motor (Leaf Type)				
	Motor	A48055	Drive				

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION			
Knob	A87050A	Volume, Model 105K			
Knob	A87050	Volume, Model 105L			
Knob	A87049A	Selector, Green, Model 105K			
Knob	A87049	Selector, Beige, Model 105L			
Knob	A87051A	Tone, Green, Model 105K			
Knob	A87051	Tone, Beige, Model 105L			
Knob	A87027B	Fast Forward			
Pushbutton	A81069B	Record			
Cabinet	A84053B	Green, Model 105K			
Cabinet	A84053C	Beige, Model 105L			

WIRING DATA

General-use Unshielded Hook-up Wire	Use	BELDEN No.	8530 (Solid) Available in Ten Colors
Power Cord	Use		8524 (Stranded) Available in Ten Colors 1765-B (6 Ft. Length)
			1725-K (7½ Ft. Length)
Low-Loss Shielded Lead (Interconnecting)			

